



Second Wind Air Purifier 2124-C & 2124-Z Installation Manual



RECOMMENDED TOOLS

- Electric Drill
- Screwdriver/Nut driver
- Tin Snips
- Eye Protection
- Ductboard Knife
- Permanent Marker
- Tape measure
- Aluminum tape and sealant
- Multimeter

WARNING: FAILURE TO FOLLOW THESE RULES MAY RESULT IN SERIOUS PERSONAL INJURY

- 1 Read these instructions carefully; failure to follow them could damage the product and cause a hazardous situation.
- 2 Installer must be a trained, experienced service technician
- 3 UV Light Hazard. Harmful to bare skin and eyes. UV radiation can cause temporary or permanent loss of vision. Never look at lamps while illuminated. To reduce the risk of exposure to UV radiation, take UV-radiation protective measures for personnel during servicing.
- 4 This fixture is designed for use with germicidal UV-C lamps and must be installed in compliance with competent technical directions so that user's eyes and bare skin will not be subjected to injurious rays.
- 5 UV Light Hazard. To prevent exposure to ultraviolet light, be sure the ultraviolet air treatment system is disconnected before servicing any part of the HVAC system or removing any access panel or the equivalent.
- 6 There shall not be any openings in the duct that would emit light.
- 7 There shall not be any duct supply or return air openings or any other openings that are in direct line-of-sight of the UV bulb.
- 8 Check damaged parts: Before further use of the unit, any damaged part should be carefully checked to ensure that the unit will operate properly. Any part that is damaged should be properly repaired or replaced.

CAUTION: Disconnect power before starting installation or maintenance.

- 1 Personal Injury Hazard. Power supply can cause electrical shock. Disconnect power supply before servicing or beginning installation.
- 2 Risk of exposure to excessive ultraviolet (UV) radiation—Do not operate without all device components in place or if sight lens is damaged.
- 3 Equipment Damage Hazard. Ultraviolet light can cause color shift or surface degradation and sometimes structural degradation of non-metallic components. Select mounting location that prevents exposure to plastic flexible duct components, polyurethane foam insulation material, rubber hoses, wire insulations, etc. If mounting options are limited, items above should be protected with ultraviolet resistant materials such as aluminum foil, aluminum duct tape, or metallic shields.
- 4 Electrical shock hazard from 24 volt or 120/277 VAC may cause serious injury or death.
- 5 Follow Proper Disposal Techniques for UV lamps (pg.3)
- 6 Wear protective gloves and safety glasses when handling lamp. To prevent injury, unplug lamp connector and allow to cool for 10 minutes before servicing.

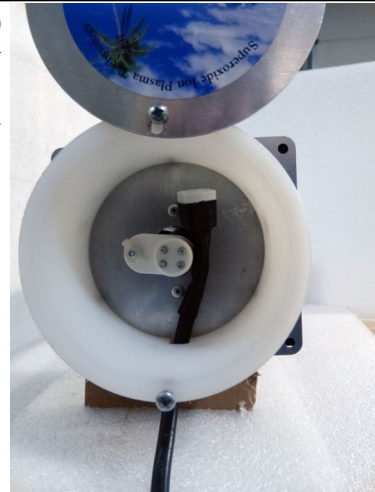
INSTALLATION:

- Prime location for installation of this device is on the supply side duct just above the condensing coil (aka A-coil, slab coil, etc), but it can be installed on the return side if necessary.
1. Disconnect air handler from supply power.
 2. Product shall be mounted only on metal components OR fiberglass ductboard of air ducts or air handlers (AHU). If installing on fiberglass ductboard, reinforcement around mounting location may be required.
 3. Drill or Cut a hole 2-1/2 to 3" diameter in the ducting/ductboard for mounting over or around coil exterior. The lamp should be installed a minimum of 2-3 inches, away from the coil or pan surface.
 4. Remove masking from adhesive foam on back of mounting plate. Insert 2124-Z in ductwork cutout. With the ballast lead cord at the bottom of the unit, press 2414-Z against ductwork wall, exercising caution if fiberglass ductboard application. If mounting to sheetmetal ductwork, use mounting plate as template and secure with supplied self-tapping screws.
 5. Affix ballast near 24V power supply with included mounting hardware.
 6. Open cover to reveal lamp connector (see lamp replacement procedure on page 3). Affix lamp connector to lamp base.
 7. Connect ballast to 24V transformer.
 8. Replace protective covers previously removed and re-connect to supply power.

LAMP REPLACEMENT

The Second Wind Ultraviolet Germicidal 24 Volt Lamp is designed for 16,000 hours of continuous operation. After 16000 hours (approx 22 months) intensity of the lamp inside the duct diminishes and should be replaced. Ballast# 010303 will display need for lamp change. Replacement of the lamp is recommended by a qualified HVAC Service Technician.

1. Disconnect electrical service and turn unit off.
2. Loosen (2) screws holding faceplate and rotate faceplate to expose lamp connection to ballast. Secure top screw to stabilize plate during service.
3. Disconnect lamp connector from lamp base and remove plastic wing nut from lamp base.
4. Remove old lamp **CAUTION: old lamp may still be hot!**
5. Replace the old lamp with the new lamp, making sure the new lamp is clean and properly seats in rubber grommet at end of PCO module. Clean the new lamp with an alcohol wipe if dirty or has fingerprints on it.
6. Secure lamp to chassis with plastic wing nut.
7. Attach lamp connector to the lamp base. Return faceplate to original install location and secure screws.
8. Reconnect unit to electrical service.
9. If lamp does not immediately illuminate, turn off electrical service and unit. Reverse pin contacts in connector by rotating connector 180 degrees



LAMP (MODEL 2124-Z)	1082 SIPT	EVERY 2 YEARS
LAMP (MODEL 2124-C)	SF-1082LR-TC	EVERY 2 YEARS
BALLAST	010303	AS REQ'D

LAMP DISPOSAL

UV lamps contain mercury like other household lamps and must be disposed of properly. **State requirements and recycling opportunities vary, go to www.lamprecycle.org for State Regulations & Contacts.** Please contact your county waste collection department for proper disposal details.

USE GLOVES AND EYE PROTECTION

If a lamp is broken, **do not use a vacuum cleaner to pick up the waste** . Instead, sweep up the waste into a plastic bag and seal. Contact your county waste collection department for proper disposal details.

TROUBLESHOOTING

If the unit does not work, check the following:

Electrical Supply/Wiring—Verify that the electrical service is operating correctly.

Ballast—If ballast LED does not illuminate, there is no power to the ballast or the ballast has failed and requires replacement. Confirm power supply and proper transformer operation (if present). If power is proper and within proper voltage (19-30V), contact supplier for replacement ballast

Transformer—If a transformer is employed to provide power to the unit (not provided by Second Wind), it should be tested in accordance with instructions provided with unit when installed.

Lamp—Verify that the lamp is not broken and is properly seated in the lamp connector. To check this, follow steps in the 'Lamp Replacement' section with one exception: you should not remove and replace the lamp. If the lamp is broken read the 'Lamp Disposal' section of this manual. Other lamp failure notifications will be shown on display LED on ballast



ATTENTION INSTALLERS AND HOMEOWNERS

**YOUR SECOND WIND PRODUCT MUST BE REGISTERED TO QUALIFY FOR WARRANTY CLAIMS
SEE CONTAINER OR CALL 1-866-476-5101 (IN USA) OR 1-888-216-9184 (IN CANADA) FOR ASSISTANCE**

SECOND WIND AIR PURIFIER WARRANTY

The Second Wind 2124-Z that is attached to your Heating, Ventilation and Air Conditioning System (HVAC) has the following warranty, applicable in USA by General Filters Inc (GFI), and in Canada by Canadian General Filters Limited (CGF)

ONE (1) YEAR WARRANTY COVERAGE LAMPS

The lamps are warranted for a period of one (1) year from the date of the original installation, when installed and operated in accordance with GFI and CGF recommendations. If during this period a lamp fails, GFI & CGF will provide a free replacement.

LIFETIME LIMITED WARRANTY

GFI & CGF warrants this product, excluding lamps and ballast to be free from defects in the workmanship or materials, under normal use and service, for the lifetime of the product from the date of original installation, when installed and operated in accordance with GFI & CGF recommendations. If during this period a covered component fails, GFI & CGF will repair or replace the part.

LIFETIME BALLAST WARRANTY

The ballast is warranted by GFI and CGF for the lifetime of this product, when installed and operated in accordance with installation recommendations. If during its lifecycle, the ballast fails, GFI or CGF will provide a free replacement after failure is returned for evaluation.

SHIPPING, REPAIRS AND ALL OTHER COSTS OF WARRANTY SERVICE

End user must pay shipping charges and all other costs of warranty service. GFI & CGF will not pay labor involved in diagnostic calls or in removing, servicing, or replacing parts. All repairs of covered components must be made with authorized service parts. Labor charges resulting from diagnostic calls or service are not covered by this warranty.

CARE OF EQUIPMENT

Your new Second Wind Air Purifier must be properly installed, operated and maintained in accordance with the unit installation, operation, and maintenance instructions provided with each unit. Failure to provide maintenance per these instructions will void warranty.

WARRANTY LIMITATIONS

This warranty will be voided if the covered equipment (only Second Wind replacement parts or units are warranted) is removed from the original installation site. This warranty does not cover damage or defect resulting from:

- 1 Accident, or neglect or unreasonable use or operation of the equipment, including operation of electrical equipment at voltages other than the range specified on the unit name plate.
- 2 Modification, change or alteration of the equipment, except as directed by GFI & CGF. The furnishings of replacement parts under terms of this warranty will apply to the original warranty period and will not extend the warranty.

GFI & CGF makes no express warranties other than the warranty specified above. All implied warranties, including the implied warranty of merchantability and fitness for a particular purpose, are limited to the duration of the warranty specified above. Liability for incidental and consequential damages is excluded and is not covered by this warranty. Some States do not allow limitations on the duration of an implied warranty or the exclusion or limitation of incidental or consequential damages, so the limitations or exclusions may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

General Filters Inc & Canadian General Filters Ltd shall not be liable for any default or delay in performance under this warranty caused by any

WARRANTY PROCEDURE

All Second Wind Air Purification systems that are attached to your Heating, Ventilation and Air Conditioning System (HVAC) have a limited unit warranty. To receive warranty consideration, the following must be provided.

- 1 Be prepared to furnish the following information:
 - a- Complete model number and serial number
 - b- Proof of installation date if warranty claim is made by other than a qualified service dealer who maintains records of your installation date and service history.
 - c- An accurate description of the problem.
 - d- Date of failure.
- 2 Call the installing dealer that you purchased your Second Wind device from.
- 3 If the installing dealer is unable to provide warranty parts, contact:

General Filters Inc,
43800 Grand River Ave
Novi, MI 48375
Phone: 1-866-476-5101

CGF Products Ltd.
400 Midwest Road
Toronto, ON M1P3A9
Phone: 1-888-216-9184